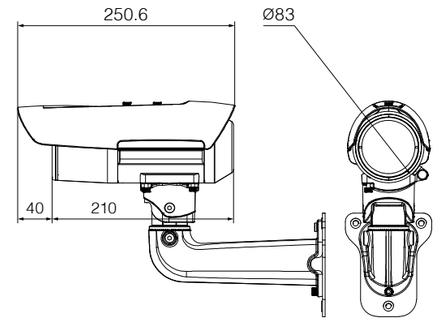
# EV8781
# HD BULLET CAMERA

## FEATURES

- 25 Meter IR Distance
- Operates in Temperature Range of -40°C to 60°C
- H.264 High Profile, MPEG-4, M-JPEG
- Multiple Independent Streams with ROI Feature
- Two-way Audio Support
- Weatherproof to IP67
- Event Recording to SD Card/NAS/FTP
- Power over Ethernet

| MODEL | RESOLUTION | FRAME RATE | LENS | WDR |
|---|---|---|---|---|
| EV8781F-B | 5 MP | 10 fps | 7.8 mm, F1.8 | N/A |
| EV8781Q-MD | 3 MP | 20 fps | 3~9 mm, F1.2, 3x Zoom | YES |
| EV8781Q-CD | 3 MP | 20 fps | 3~10 mm, F1.3 | YES |
| EV8781Q-DD | 3 MP | 20 fps | 9~22 mm, F1.5 | YES |
| EV8781U-C | 2.1 MP | 30 fps | 3~10 mm, F1.3 | N/A |
| EV8781U-D | 2.1 MP | 30 fps | 9~22 mm, F1.5 | N/A |
| EV8781A-C | 1.3 MP | 30 fps | 3~10 mm, F1.3 | N/A |
| EV8781A-D | 1.3 MP | 30 fps | 9~22 mm, F1.5 | N/A |
| EV8781A-CD | 1.3 MP | 30 fps | 3~10 mm, F1.3 | YES |
| EV8781A-DD | 1.3 MP | 30 fps | 9~22 mm, F1.5 | YES |

## DIMENSIONS(unit:mm)




## SPECIFICATIONS

| Model | EV8781F-B | EV8781U-C/D | EV8781A-C/D | EV8781Q-MD WDR 3X OPTICAL ZOOM | EV8781Q-CD/DD WDR | EV8781A-CD/DD WDR |
|---|---|---|---|---|---|---|
| Image Sensor | 1/2.5" 5 MP CMOS | 1/2.7" HD-1080p CMOS | 1/3" 1.3 MP CMOS | 1/3" 3 MP WDR CMOS | | SONY 1/4" 1.3 MP WDR CMOS |
| WDR | N/A | | N/A | Dual-exposure, up to 110 dB | | Yes |
| Num. of Effective Pixels | 2592 x 1920 HxV | 1920 x 1080 HxV | 1280 x 1024 HxV | 2048 x 1536 HxV | | 1280 x 1024 HxV |
| Lens | 7.8 mm, F1.8 Fixed Iris | EV8781U-C: 3~10 mm Vari-Focal, F1.3<br>EV8781U-D: 9~22 mm Vari-Focal, F1.5 | EV8781A-C: 3~10 mm Vari-Focal, F1.3<br>EV8781A-D: 9~22 mm Vari-Focal, F1.5 | 3x Optical Zoom: 3~9 mm, F1.2 | EV8781Q-CD: 3~10 mm Vari-Focal, F1.3<br>EV8781Q-DD: 9~22 mm Vari-Focal, F1.5 | EV8781A-CD: 3~10 mm Vari-Focal, F1.3<br>EV8781A-DD: 9~22 mm Vari-Focal, F1.5 |
| Minimum Illumination | 0.1 Lux @ F1.2, 0 Lux(IR on, 28 Pcs LED 25 M) | | 0.1 Lux @ F1.2, 0 Lux(IR on, 28 Pcs LED 25 M) | | | |
| Shutter Time(Sec.) | 1/3~1/6400 or 1/4~1/8000 Selectable | | 1/3~1/6400 or 1/4~1/8000 Selectable | | | |
| Auto Iris | N/A | DC Drive | DC Drive | P-Iris | DC Drive | |
| S/N Ratio | More than 38 dB | | More than 38 dB | More than 39 dB | | |
| Day/Night | Yes, Built-in ICR, IR Auto-start under 10 Lux | | Yes, Built-in ICR, IR Auto-start under 10 Lux | | | |
| Video Compression | Motion JPEG, MPEG-4, H.264 High Profile | | Motion JPEG, MPEG-4, H.264 High Profile | | | |
| H.264/MJEPG | 10fps @ 5MP, 20fps @ 3MP, 30fps @ HD-1080p / HD-720p / SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA / | 30fps @ HD-1080p / HD-720p / SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA | 30fps @ SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA | 20fps @ 3MP, 30fps @ HD-1080p / HD-720p / SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA | | 30fps @ SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA |
| MPEG4 | 30fps @ HD-1080p / HD-720p / SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA / Minilux Mode | 30fps @ HD-1080p / HD-720p / SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA | 30fps @ SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA | 30fps @ HD-1080p / HD-720p / SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA | | 30fps @ SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA |
| Video Streaming | Multiple Stream: Support up to 4 Independent Streams with ROI(Region of Interest) Feature<br>Controllable Framerate and Bandwidth CBR/VBR | | Multiple Stream: Support up to 4 Independent Streams with ROI(Region of Interest) Feature<br>Controllable Framerate and Bandwidth CBR/VBR | | | |
| Bitrate | M-JPEG/VBR Mode: 5 Video Quality Level Selectable, MPEG-4/H.264 CBR Mode: 1 M~12 Mbps | | M-JPEG/VBR Mode: 5 Video Quality Level Selectable, MPEG-4/H.264 CBR Mode: 1 M~12 Mbps | | | |
| Video Output | SDTV- Composite Video | | SDTV- Composite Video | | | |
| Image Setting | Compression, Brightness, Contrast, Mirroring, Sharpness, AWB, AES, AGC, BLC, Day/Night Mode, WDR, 4 Privacy Mask Regions | | Compression, Brightness, Contrast, Mirroring, Sharpness, AWB, AES, AGC, BLC, Day/Night Mode, WDR, 4 Privacy Mask Regions | | | |
| Audio Compression | G.711(u-law and a-law)/G.726/AAC | | G.711(u-law and a-law)/G.726/AAC | | | |
| Audio Input | Line In x 1 | | Line In x 1 | | | |
| Audio Output | Line Out x 1 | | Line Out x 1 | | | |
| Security | Password Protection, IP Address Filtering, User Access Privilege | | Password Protection, IP Address Filtering, User Access Privilege | | | |
| Network Protocols | TCP/IP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DynDNS, NTP, FTP, SMTP, UDP, RTP, RTSP, RTCP, 3GPP, UPnP, IPv4/v6, SAMBA Client(NAS) | | TCP/IP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DynDNS, NTP, FTP, SMTP, UDP, RTP, RTSP, RTCP, 3GPP, UPnP, IPv4/v6, SAMBA Client(NAS) | | | |
| API | CGI, ONVIF Support | | CGI, ONVIF Support | | | |
| Intelligent Video | Video Motion Detection, Face Detection | Video Motion Detection | Video Motion Detection | | | |
| Alarm Trigger | Periodical Timer, Intelligent Video and External Digital Input | | Periodical Timer, Intelligent Video and External Digital Input | | | |
| Alarm Event | Intelligent Video, File Upload via FTP and E-mail, Notification via E-mail, External Output Activation, File Recording to SD Card Remote FTP or Remote NAS | | Intelligent Video, File Upload via FTP and E-mail, Notification via E-mail, External Output Activation, File Recording to SD Card Remote FTP or Remote NAS | | | |
| Video Buffer | 24 MB Max. | | 24 MB Max. | | | |
| Configuration | EtroScan™ Utility, Web UI | | EtroScan™ Utility, Web UI | | | |
| Web Browser | Microsoft IE 8.0 or above, Mozilla Firefox, Google Chrome | | Microsoft IE 8.0 or above, Mozilla Firefox, Google Chrome | | | |
| Local Storage | microSD/SDHC Card Support | | microSD/SDHC Card Support | | | |
| Casing | Metal(Aluminum), IP67, Vandal-proof | | Metal(Aluminum), IP67, Vandal-proof | | | |
| Dimension | 95(W) x 95(H) x 251(D) mm | | 95(W) x 95(H) x 251(D) mm | | | |
| Weight | 1800 g(Including the Bracket) | | 1800 g(Including the Bracket) | | | |
| Processor & Memory | ARM 9 Base SoC, 256 MB RAM, 128 MB Flash | | ARM 9 Base SoC, 256 MB RAM, 128 MB Flash | | | |
| Power | Power over Ethernet IEEE 802.3af, Max. 8.9 W, 8~25 Vdc, 24 Vac | | Power over Ethernet IEEE 802.3af, Max. 8.9 W, 8~25 Vdc, 24 Vac | | | |
| I/O Connectors | 1. RJ-45 Female Type 10 BASE-T/100 BASE-TX<br>2. 3-Pin Terminal Block for DC/AC Power Input<br>3. 9-Pin Terminal Block for DI, DO, RS-485, Light Sensor Trigger In/Out<br>4. Audio Line In/Out<br>5. microSD Card Slot | | 1. RJ-45 Female Type 10 BASE-T/100 BASE-TX<br>2. 3-Pin Terminal Block for DC/AC Power Input<br>3. 9-Pin Terminal Block for DI, DO, RS-485, Light Sensor Trigger In/Out<br>4. Audio Line In/Out<br>5. microSD Card Slot | | | |
| Failover | microSD/SDHC Auto-recovery, Reset | | microSD/SDHC Auto-recovery, Reset | | | |
| Operation Conditions | -40°C~60°C(-40°F~140°F) Humidity: 20%~80% RH | | -40°C~60°C(-40°F~140°F) Humidity: 20%~80% RH | -10°C~50°C(14°F~122°F) Humidity: 20%~80% RH | -40°C~60°C(-40°F~140°F) Humidity: 20%~80% RH | |
| Included Accessories | QIG, Power Adapter, Power Cable, I/O Cable, CD-ROM(User Manual, Free Bundle NVR), Bracket(3-Axis Bracket Optional) | | QIG, Power Adapter, Power Cable, I/O Cable, CD-ROM(User Manual, Free Bundle NVR), Bracket(3-Axis Bracket Optional) | | | |
| Approvals | FCC Part15 SubpartB, CN EN55022 ClassB, EN55024, LVD, RoHS | | FCC Part15 SubpartB, CN EN55022 ClassB, EN55024, LVD, RoHS | | | |
| IR Range | 25 M | | 25 M | | | |
| Number of IR LED | 28 | | 28 | | | |
| IR Angle | IR View Angle: 25°/60° | | IR View Angle: 25°/60° | | | |
| IR Wavelength | 850 nm | | 850 nm | | | |